

Offenlegungsschrift 2102 605

Aktenzeichen: P 21 02 605.1

Anmeldetag: 20. Januar 1971

Offenlegungstag: 29. Juli 1971

Ausstellungspriorität: —

Unionspriorität

Datum: 21. Januar 1970

Land: Japan

Aktenzeichen: 5955-70

507715-C C2.
JA-005453, S31,
Sumitomo Chemical Co Ltd.
Asium.
C07d-49/36 (29-07-71)...
HERBICIDAL THIOHYDANTOIN DERIVS....

SUMO.21-01-798
OT-2102605-Q

C7-D9, C12-Po.

2 10

(I) can be combined with fungicides, insecticides, nematocides, herbicides and fertilisers.

ADVANTAGE

Very low toxicity to warm-blooded animals and fish.

PREFERRED

(I) where (a) X is Cl in 3-position, n = 1, and Y is $>C(CH_3)_2$; (b) X is Cl in 3- and 5-positions, n = 2, Y is $>C(CH_3)_2$; (c) X is Cl in 1-position, n = 1, Y is $>CH-CH(CH_3)_2$; (d) X is Cl in 3- and 5-positions, n = 2, Y is $>CHC_2H_5$.

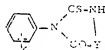
PREPARATION

(a) (I) where Y is $>CR_1R_2$ are pref. prep. by reacting a phenylisothiocyanate (II).



with an amino-acid $H_2N-CR_1R_2-COOH$ (III).

(b) (I) where Y is $>CR$ are pref. prep. by treating a hydantoin deriv. (IV).



where X is halogen, n is 1, 2 or 3 and Y is $>CR_1R_2$ or $>CR$ where R_1 and R_2 are H, alkyl, hydroxyalkyl, alkenyl, alkoxy-carbonyl, or alkoxy-carbonyl-alkylidene or alkoxy-carbonylalkylidene).

NEW

Thiohydantoin derivs. (I)

USES

Herbicides and as active ingredients in herbicide compositions, for pre-emergent use against grassy broad-leaved weeds. Rice seedlings are not affected. (I) can also be used to protect crops, beans, other vegetables, fruit orchards, lawns, pastures and fallow ground against Portulaca oleracea, Polygonum longisetum, Stellaria media, Amaranthus retroflexus, Euphorbia supina or Cyperus microstria.

Contd 507715

Prüfungsantrag gemäß § 28 b PatG ist gestellt